# **SIEMENS**

## Data sheet

## 3RV2111-0HA10

CIRCUIT-BREAKER SZ S00, FOR MOTOR PROTECTION, CLASS 10, W. OVERLOAD RELAY FUNCTION A-RELEASE 0.55...0.8A,N-RELEASE 10A SCREW CONNECTION, STANDARD SW. CAPACITY



product brandname	SIRIUS
Product designation	Circuit breaker
Design of the product	For motor protection with overload relay function
Product type designation	3RV2
General technical data	
Size of the circuit-breaker	S00
Size of contactor can be combined company-specific	S00, S0
Product extension	
Auxiliary switch	Yes
Power loss [W] total typical	6 W
Insulation voltage with degree of pollution 3 rated value	690 V
Surge voltage resistance rated value	6 kV
maximum permissible voltage for safe isolation	
<ul> <li>in networks with grounded star point between main and auxiliary circuit</li> </ul>	400 V
<ul> <li>in networks with grounded star point between main and auxiliary circuit</li> </ul>	400 V
Protection class IP	

• on the front       IP20         • of the terminal       IP20         Shock resistance       IP20         • acc. to IEC 60068-2-27       25g / 11 ms         Mechanical service life (switching cycles)       00 000         • of the main contacts typical       100 000         e of auxiliary contacts typical       100 000         Electrical endurance (switching cycles)       •         • typical       100 000         Type of protection       Increased safety         Certificate of suitability relating to ATEX       on request         Protection against electrical shock       finger-safe         Equipment marking acc. to DIN EN 81346-2       Q         Ambient conditions       2000 m         Installation altitude at height above sea level       2 000 m         maximum       -20 +60 °C         • during operation       -20 +60 °C         • during storage       -50 +80 °C         • during transport       -50 +60 °C         Relative humidity during operation       -20 +60 °C         Relative humidity during operation       -20 +60 °C         Relative humidity during operation       -20 +60 °C         Relative humidity during operation       10 95 %         Main circuit<
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Operating voltage     • rated value     690 V
Operating frequency rated value     50 60 Hz       Operating current rated value     0.8 A
Operating current Operating current
• at AC-3
— at 400 V rated value 0.8 A
Operating power
• at AC-3
— at 230 V rated value 120 W
— at 400 V rated value 180 W
— at 400 V rated value     180 W       — at 500 V rated value     250 W
at 400 V rated value180 W at 500 V rated value250 W at 690 V rated value370 W
— at 400 V rated value     180 W       — at 500 V rated value     250 W

Auxiliary circuit	
Design of the auxiliary switch	laterally
Number of NC contacts	
<ul> <li>for auxiliary contacts</li> </ul>	0
Number of NO contacts	
<ul> <li>for auxiliary contacts</li> </ul>	0
Number of CO contacts	
<ul> <li>for auxiliary contacts</li> </ul>	0
Operating current of auxiliary contacts at AC-15	
• at 24 V	1.5 A
• at 230 V	1.5 A
Operating current of auxiliary contacts at DC-13	
• at 24 V	1 A

Protective and monitoring functions			
Trip class	CLASS 10		
Design of the overload release thermal			
Operational short-circuit current breaking capacity (Ics) at AC			
at 240 V rated value	100 kA		
• at 400 V rated value	100 kA		
• at 500 V rated value	100 kA		
• at 690 V rated value	100 kA		
Maximum short-circuit current breaking capacity (Icu)			
<ul> <li>at AC at 240 V rated value</li> </ul>	100 kA		
• at AC at 400 V rated value	100 kA		
• at AC at 500 V rated value	100 kA		
• at AC at 690 V rated value	100 kA		
Breaking capacity short-circuit current (Icn)			
• at 1 current path at DC at 150 V rated value	10 kA		
<ul> <li>with 2 current paths in series at DC at 300 V rated value</li> </ul>	10 kA		
<ul> <li>with 3 current paths in series at DC at 450 V rated value</li> </ul>	10 kA		
UL/CSA ratings			
Full-load current (FLA) for three-phase AC motor			
• at 480 V rated value	0.8 A		
• at 600 V rated value	0.8 A		
Contact rating of auxiliary contacts according to UL	C600 / R300		
Short-circuit protection			
Design of the short-circuit trip	magnetic		
Design of the fuse link			

<ul> <li>for short-circuit protection of the auxiliary switch required</li> </ul>	fuse gL/gG: 6 A, quick: 10 A
Design of the fuse link for IT network for short-circuit	
protection of the main circuit	
• at 690 V	gL/gG 6 A
Installation/ mounting/ dimensions	
Mounting position	any
Mounting type	screw and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 60715
Height	97 mm
Width	65 mm
Depth	96 mm
Required spacing	
<ul> <li>with side-by-side mounting</li> </ul>	
— forwards	0 mm
— Backwards	0 mm
— upwards	50 mm
— downwards	50 mm
— at the side	0 mm
<ul> <li>for grounded parts</li> </ul>	
— forwards	0 mm
— Backwards	0 mm
— upwards	50 mm
— at the side	30 mm
— downwards	50 mm
• for live parts	
— forwards	0 mm
— Backwards	0 mm
— upwards	50 mm
— downwards	50 mm
— at the side	30 mm
Connections/Terminals	
Product function	No
<ul> <li>removable terminal for auxiliary and control circuit</li> </ul>	No
Type of electrical connection	
for main current circuit	screw-type terminals
<ul> <li>for main current circuit</li> <li>for auxiliary and control current circuit</li> </ul>	screw-type terminals
Arrangement of electrical connectors for main current	Top and bottom
circuit	
Type of connectable conductor cross-sections	
<ul> <li>for main contacts</li> </ul>	

— single or multi-stranded	2x (0,75 2,5 mm²), 2x 4 mm²
<ul> <li>finely stranded with core end processing</li> </ul>	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)
<ul> <li>at AWG conductors for main contacts</li> </ul>	2x (18 14), 2x 12
Type of connectable conductor cross-sections	
<ul> <li>for auxiliary contacts</li> </ul>	
— single or multi-stranded	2x (0,5 1,5 mm²), 2x (0,75 2,5 mm²)
<ul> <li>finely stranded with core end processing</li> </ul>	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)
<ul> <li>at AWG conductors for auxiliary contacts</li> </ul>	2x (20 16), 2x (18 14)
Tightening torque	
<ul> <li>for main contacts with screw-type terminals</li> </ul>	0.8 1.2 N·m
<ul> <li>for auxiliary contacts with screw-type terminals</li> </ul>	0.8 1.2 N·m
Design of screwdriver shaft	Diameter 5 to 6 mm
Design of the thread of the connection screw	
<ul> <li>for main contacts</li> </ul>	M3
<ul> <li>of the auxiliary and control contacts</li> </ul>	M3
Safety related data	
B10 value	
<ul> <li>with high demand rate acc. to SN 31920</li> </ul>	5 000
Proportion of dangerous failures	
<ul> <li>with low demand rate acc. to SN 31920</li> </ul>	50 %
<ul> <li>with high demand rate acc. to SN 31920</li> </ul>	50 %
Failure rate [FIT]	
<ul> <li>with low demand rate acc. to SN 31920</li> </ul>	50 FIT
T1 value for proof test interval or service life acc. to IEC 61508	10 у
Display version	
<ul> <li>for switching status</li> </ul>	Handle

Certificates/approvals

General Produc	t Approval				Declaration of Conformity
	CSA		<u>KTL</u>	EHC	EG-Konf.
Test Certificates	3	Shipping Approv	al		
Typprüfbescheinigu ng/Werkszeugnis	spezielle Prüfbescheinigunge <u>n</u>	ABS	B U R E A U VERITAS	Lloyd's Register LRS	PRS
Shipping Appro	val	other			
RINA	RMRS	Umweltbestätigung	<u>Bestätigungen</u>	VDE	sonstig
Railway					
Schwingen/Schocke <u>n</u>					

### Further information

Information- and Downloadcenter (Catalogs, Brochures,...) http://www.siemens.com/industrial-controls/catalogs

Industry Mall (Online ordering system) https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RV2111-0HA10

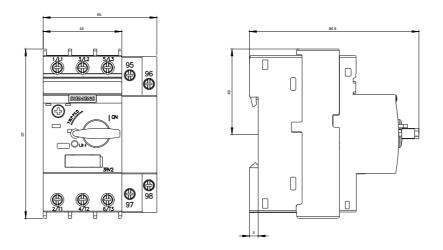
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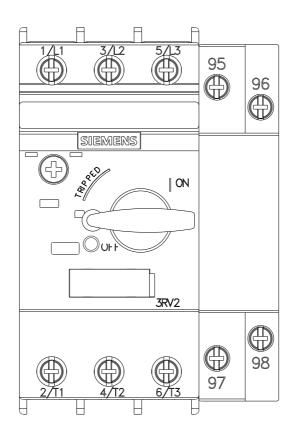
http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RV2111-0HA10

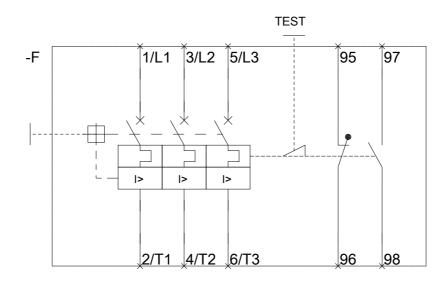
Service&Support (Manuals, Certificates, Characteristics, FAQs,...) https://support.industry.siemens.com/cs/ww/en/ps/3RV2111-0HA10

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RV2111-0HA10&lang=en

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